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CLAIMS

NO 2004/035286

- 1. A device (1, 38, 42) for removing an object from a moulding tool (2, 30, 44) in connection with casting or moulding an object, wherein there is a retaining force between the moulding tool and the object, characterized in that the device comprises a body (5, 39, 43), coupling means arranged for coupling the object to the body and means (20, 40, 46) for applying a traction force on the object, which is substantially opposite to said retaining force, wherein the body is designed with a contact surface (9) adapted for at least partly being in contact with the object, and the coupling means is arranged to couple the object to the contact surface such that said traction force becomes substantially uniformly distributed over the part of the surface of the object that is in contact with the contact surface.
  - 2. A device according to claim 1, <u>characterized in</u> that the contact surface (9) has a shape which is substantially adapted to the form of the object (3).
  - 3. A device according to any of the claims 1 or 2, <u>characterized in</u> that the body comprises at least one section made of an substantially inelastic material and said section being arranged in connection to the contact surface (9).
  - 4. A device according to any of the previous claims, <u>characterized in</u> that said coupling means is arranged for coupling the object to the contact surface by means of under-pressure.
- 30 5. A device according to claim 4, <u>characterized in</u> that said coupling means is arranged so that it creates said underpressure between the contact surface (9) and the object (3).
- 6. A device according to any of the claims 4 or 5, <u>character-ized in</u> that the coupling means comprises sealing means (18) arranged for sealing between the contact surface (9) and the ob-

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ject (3), and at least one coupling channel (13) being arranged in connection to the contact surface (9), wherein the coupling channel is arranged for transporting air away from the contact surface.

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- 7. A device according to any of the claims 4-6, <u>characterized</u> <u>in</u> that it comprises at least one air-permeable contact means (17) having a surface, which is at least a part of the contact surface and arranged to be in contact with the object (3) in such a way that deformation of the object is counteracted.
- 8. A device according to claim 7, <u>characterized in</u> that the contact means (17) comprises a plurality of elements arranged such that cavities are formed between them, wherein transportation of air is admitted through the contact means.
- 9. A device according to the claims 7 or 8, <u>characterized in</u> that the contact means (17) is substantially made of a sintered metal or a sintered metal alloy.

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- 10. A device according to claim 6 or any of the claims 7, 8, or 9, characterized in that the contact means (17) is arranged such that transportation of air from the contact surface (9) to the coupling channel (13) occurs through the contact means, and that said sealing means (18) is arranged so that it surrounds the contact means.
- 11. A device according to any of the previous claims, <u>characterized in</u> that said means (40, 46) for applying a traction force on the object is arranged for co-operation with the moulding tool (30, 44) for applying the traction force on the object.
- 12. A method for removing an object (3) from a moulding tool (2, 30, 44) in connection with casting or moulding of the object, when it is a retaining force between the moulding tool and the object, wherein the method comprises that: